

Warrior AIR COMPRESSOR OPERATION MAMUAL

AC50VLF



BEFORE OPERATION BE FAMILIAR
WITH THE OPERATION MANUAL FIRST

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1. BRIEF DESCRIPTION

This air compressor is of novel design and excellent workmanship, having the advantages of compact construction, fine appearance, light weight, easy operation, high safety and low noise; it can be widely used in machinery including chemical industry, spray, automatic control & DIY system and other fields where compressed air is required.

2. GENERAL VIEW AND MAIN COMPONENTS (Fig.1)

- (1) Fan cover
- (2) Muffler
- (3) Front shroud
- (4) Switch assembly
- (5) Tank
- (6) Rubber mat
- (7) Pump head
- (8) Wheel



Fig.1

3. MAIN THCHNICAL PARAMETER

ITEM	DATA		
Model	AC50VLF		
Power	2.2Kw/3HP		
Voltage	230V		
Frequency	50Hz		
Motor Poles	2P		
Rated Speed	2850 r/min		
Current	10A		
Theoretic Discharge	14.6CFM		
Discharge Pressure	115PSI/0.8MPa		
Restart Pressure	80 PSI/0.55MPa		
Tank Capacity	50L	80L	100L
Dimensions	77×38×75cm	92×38×83cm	109×43×83cm
Air Outlet Size	1/4"		
Net Weight	43.2kg	53kg	57kg

4. PREPAPATION FOR STARTING

1. Place the compressor in a dry and ventilated area.
2. Keep the voltage within $\pm 5\%$ of rated.
3. Keep the oil level in the red circle leveler.
4. Recommend compressor oil use SAE30 or L-DAB68 over 10°C and use SAE10 or L-DAB46 below 10°C.
5. Pull the knob on the pressure switch cover to the ON position (Fig.2) and let the compressor run 10 minutes with no load to ensure lubricating the moving parts before regular service.

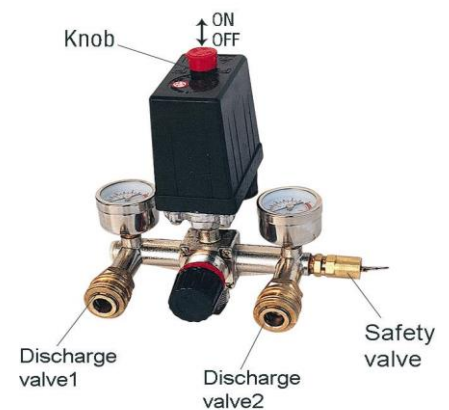


Fig.2

5. OPERATION AND ADJUSTMENT

- 1) The compressor is controlled by pressure switch when operational. It will stop automatically as pressure increases to maximum and will restart automatically when pressure decreases to minimum. The rated pressure has been factory set and **MUST** never be altered. As soon as the motor switched off the compressed or the compressor is being stored the air in the discharge pipe should be released. This is the necessary condition for restart or the motor could be damaged.
- 2) The output pressure of compressed air can be adjusted by regulating valve. Pull up the knob of regulation valve and turn it clockwise to increase or counterclockwise to decrease the pressure (Fig.3).
- 3) To stop the compressor when operating press the pressure knob switch to the OFF position.

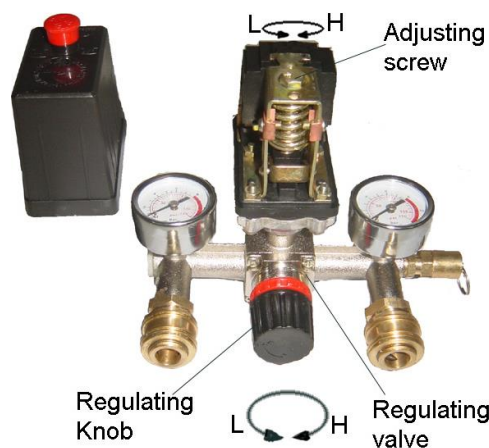


Fig.3

6. CAUTIONS

- (1) Before operation or starting of compressor put in oil plug and air filter.
- (2) Never unscrew any connecting part when the tank is in pressure condition.
- (3) Never disassemble any electrical part before disconnecting the mains plug.
- (4) Never adjust the safety valve.
- (5) Never use the compressor in place where voltage is too low or too high.
- (6) Never disconnect the plug to stop compressor, set the switch knob in position off instead.
- (7) If the release valve doesn't work at full pressure, stop the compressor to find the cause immediately so not damage to motor can occur.
- (8) Lubricating oil must be clean; oil level should be kept in the score of oil ruler glass.
- (9) Disconnect the plug to cut off power supply and open the outlet valve.

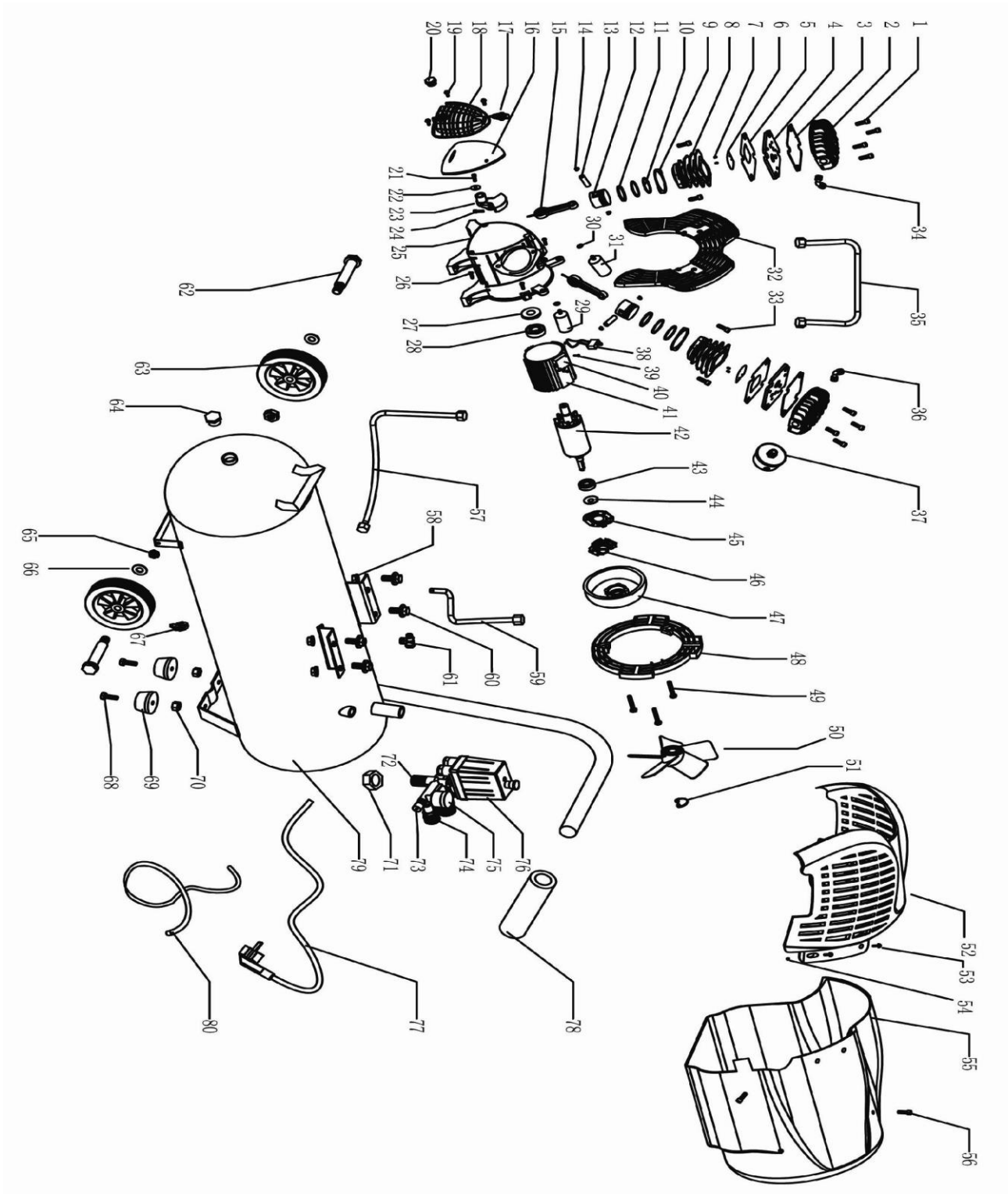
7. MAINTENANCE

- (1) Clean crankcase and renew lubricating oil after the first 10 working hours.
- (2) Clean the oil level after every 20 working hours, and replenish if necessary
- (3) Open drain cock under the tank to exhaust condensation after every 60 working hours.
- (4) Clean crankcase and renew the oil, clean air filter, and check safety valve and pressure gauge after every 120 working hours.

8. TROUBLES AND REMEDIES

Trouble	Possible causes	Remedies
Motor will not run, Running too slow, or motor over heating	(1) Fault in line, or voltage insufficient (2) Power wire too thin or too long (3) Fault in pressure switch (4) Fault in motor (5) Sticking of main compressor	(1) Check the line (2) Replace the wire (3) Repair or replace (4) Repair or replace (5) Check and repair
Sticking of main compressor	(1) Moving parts burnt due to insufficient oil (2) Moving parts damaged, or stuck by foreign body.	Check crankshaft, bearing, connecting rod, piston, piston ring, etc, And replace if necessary.
Terrible shaking or abnormal noise	(1) Connecting parts may be loose (2) Foreign body got into main compressor (3) Piston knocking valve seat (4) Moving parts seriously worn	(1) Check and retighten (2) Check and clean away (3) Replace with thicker paper gasket (4) Repair or replace
Pressure insufficient or discharge capacity decreased	(1) Motor running too slow (2) Air filter clogged up (3) Leakage from safety valve (4) Leakage from discharge pipe (5) Sealing gasket damaged (6) Valve plate damaged carbon buildup or stuck. (7) Piston ring and cylinder worn or damaged	(1) Check and remedy (2) Clean or replace the cartridge (3) Check and adjust (4) Check and repair (5) Check and replace (6) Replace and clean (7) Repair or replace

The oil Consumption too excessive	(1) Oil level too high (2) Breath pipe choked up (3) Piston ring and cylinder worn or damaged	(1) Keep the level within set range (2) Check and clean (3) Repair or replace
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PARTS ILLUSTRATION

NO	Designation	Qty	NO	Designation	Qty
1	BoltM6x55	8	41	stator	1
2	cylinder head	2	42	rotor	1
3	cylinder seals	2	43	bearing 6205	1
4	valve plate	2	44	wave washer D35	1
5	valve plate gasket	2	45	Leave the heart switch scale board	1
6	valve clack	2	46	Leave the heart switch	1
7	Sell the son	4	47	The electrical engineering cover	1
8	cylinder	2	48	Lead the breeze cover blocks the plank	1
9	cylinder gasket	2	49	bolt M6x30	3
10	piston ring	4	50	Fan	1
11	Oil wreath	2	51	Block the turn 14	1
12	piston	2	52	Lead the breeze cover	1
13	piston pin	2	53	bolt M5x12	5
14	circlip	4	54	Nut M5	5
15	connecting rod	2	55	Fan cover	1
16	rubber gasket	1	56	From offend the bolt ST4.8x16	5
17	respirator	1	57	The high pressure tube	1
18	crank case cover	1	58	Nut M8	4
19	bolt M6x16	3	59	Unload the lotus tube	1
20	oil leveler	1	60	The outside is hexangular bolt M8x25	4
21	bolt M8x20 (left)	1	61	One-way valve	1
22	Flat gasket Φ8	1	62	Axle	2
23	crank	1	63	Wheel	2
24	bolt M8x30	1	64	Block up the head	2
25	crank case	1	65	Nut M10	2
26	bolt M6*30	3	66	Flat gasket Φ10	4
27	sealing ring	1	67	The catchment fill	1
28	bearing 6205	1	68	The outside is hexangular bolt M8x25	2

29	Start the electric capacity	1	69	Rubber mat	2
30	Nut M8	2	70	Defend the loose nut M8	2
31	Revolve the electric capacity	1	71	Combine the tight nut	1
32	Prop up the plank	1	72	The support is total to become	1
33	bolt M8x25	4	73	Safe valve	1
34	Direct shipping links	1	74	Quickly change to deal with contact	2
35	Connect the connector	1	75	Pressure gauge	2
36	Curved head of right angle	1	76	Pressure switch	1
37	muffler	2	77	Plug line	1
38	Protection	1	78	Rubber hand handle	1
39	bolt M5x8	2	79	Tank	1
40	Junction Box	1	80	Power card	1

10. LIST OF GOODS

NO	Designation	Qty
1	Air compressor	1
2	Air filter	1
3	Breath pipe	1
4	Rubber gasket	1
5	Operation manual	1